

13 OCT 1977

MEMORANDUM FOR: Acting Chief, Real Estate and Construction  
Division, OL

STATINTL

FROM: [REDACTED]

Acting Chief, Headquarters Engineering  
Branch, RECD/OL

SUBJECT: Office of Data Processing Facilities  
Requirements

REFERENCE: Memo dtd 23 Aug 77 to D/L fm D/ODP, Subj:  
Summary of Space and Utility Requirements  
(ODP 1631-77; OL 7 3949)

1. The referent delineates the requirements of the Office of Data Processing (ODP) for facilities support for four major computer projects [i.e., CAMS, ADSTAR, SAFE, and Ruffing Center (GC03) Expansion]. This memorandum did not surface in Headquarters Engineering Branch (HEB) until late September when a copy was obtained through ODP/CAMS personnel.

2. "This memorandum is provided for information and planning"; however, it is not totally clear as to: whether these are firm requirements as written, where the necessary funds for facilities are coming from, and whether the required dates are already tied to computer equipment deliveries. The following addresses each project individually and attempts to put each into prospective and give the current status of the Office of Logistics (OL) support. In general terms, HEB has been apprised of these future plans through the excellent rapport that has been developed with the Facilities Branch, Engineering Division, ODP. Consequently, HEB facilities inputs have already been incorporated into early planning to reflect economies of space, electrical power, and environmental control. However, this is the first time requirement dates have been discussed for the GC03 Expansion. With each of these projects, it is the common problem of the timing and availability of new space outside of the Headquarters Building which would be the forcing function in the ability of OL to meet these ODP requirement dates.

3. CAMS: A separate memorandum dated 6 October 1977 to the D/L addresses in detail both the interim CAMS requirement (in-place upgrade of CAMS in GC47 by March 1978) and the

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separate CAMS facility requirement (Metropolitan Washington area, 6,500 sq. ft. with UPS power by August 1979).

a. Interim CAMS:

(1) HEB is awaiting final determination of computer equipment selection by ODP for interim CAMS and citation of FY 78 funding available (\$117,700) before initiating design and issuing work authorizations for GSA Group Forces for the limited facilities modifications (HEB designed) which should start before 1 January 1978 (90 days for construction).

b. Separate CAMS Facility:

(1) The tentative site selection for CAMS (viewing only the Headquarters Building) (9,000 sq. ft.) on the ground floor of Headquarters (see Attachment A) along the interior side of G corridor should be finalized. Since only the northwest corner of either the ground or first floor served by D Vault can support an additional electrical load of 300 kVA, there are few other Headquarters alternatives. The major remaining occupants of this area, after the Office of Legislative Counsel is relocated, are the Center Cover Staff and Career Management Staff of the DDO. Preliminary plans must be developed for their relocation (7,193 sq. ft. by February 1978) in order that construction be completed by August 1979.

(2) This will be a large design and construction project and should be contracted through GSA. Separate 60 and 415 Hz UPS systems will be Agency-furnished equipments. The estimate of \$1,386,000 is a good budgetary estimate with 20 percent inflation through 1979. Funds in the amount of \$50,000 are required in FY 78 for A&E design. The apparent CAMS funding sequence precludes major construction funding before FY 79.

(3) If deemed necessary, additional alternatives should be developed to consider NPIC, [ ] or other community locations. STATINTL

4. ADSTAR:

a. Special Projects Staff (SPS), ODP; and Systems Analysis Branch, OCR, have finalized the selection of [ ]

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[redacted] as the ADSTAR system's contractor.  
The contract was authorized on 30 September 1977.

b. An update of new ADSTAR technical requirements is being generated with SPS personnel to reflect the [redacted] proposal and will be incorporated into a final scope of work for GSA. Funding of \$25,000 was transferred to GSA late in FY 77. It is planned to have [redacted] prepare the facilities design as a change of scope to the SAFE A&E contract.

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c. The proposed ADSTAR location (see Attachment A) will have to be renovated beginning in July 1978 to meet the December 1978 requirement date. Availability of new space again is the forcing function. This lack of available space is further complicated by the fact that the "ADSTAR slice" of space is in the center of yet a larger area occupied by OCR which will be renovated as part of Project SAFE in 1980/81.

d. Without extraordinary attention this requirement cannot be met until June 1979. (Anticipating new leased space by Fall-Winter 1978 and allowing 6 months for construction after the site is vacated.)

e. The mid 1978 interim ADSTAR requirement for 500 sq. ft. adjacent to GE0430 and modifications to 1H1125 to house conversion equipment to reduce old files to the new format size can easily be accomplished within existing OCR space as required.

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5. SAFE:

a. Project SAFE has undergone an additional 2-year delay in program planning. This change is due in part to reprogramming of funds out of FY 78 and FY 79, the directed attempt to find commonality between the Agency's SAFE system and DIA's ADISS system and the inclusion of a system design competition. The [redacted] have been selected as the SAFE Design Competition Phase contractors.

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b. In the interim period until FY 80, the RECD effort for SAFE is substantially reduced. The facilities design by the GSA A&E [redacted] is to continue and will start in October or November 1977. Since the computer space, as identified, is physically constrained

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(see Attachment A), the design will proceed on the basis of an environmentally-controlled, wide open computer space. Likewise, the 60 and 415 Hz UPS area will proceed on a best engineering judgement of what configuration will be selected in 1980. The only complicated factor will be the integration of the ADSTAR requirement for 60 Hz UPS power into the SAFE design and ADSTAR construction in 1978.

c. The site preparation for two additional 2500 kW generators (ODP and SAFE) will proceed as funded. However, only the ODP generator will be installed (anticipated on line by September 1979). The SAFE generator will be purchased as soon as funding allows in 1980.

d. The electrical expansion of C Vault is in final design review by GSA prior to being advertised for bidding. As an accelerated construction is no longer required, the normal GSA competitive contracting procedures will be used.

e. The major area which requires management attention is the need to revise the budgetary plan FY 80/81 to include the SAFE user area renovations (\$450,000 - 1976 estimate) and update the facilities construction estimate of approximately \$3 million (1976 estimate) to reflect inflation for construction in 1980/81.

6. Ruffing Center Expansion:

a. The requirement to expand the GC03/1D16 center by 6,000 sq. ft. by June 1978 can only be met with the availability of a corresponding space outside the Headquarters Building by January 1978. Since the earliest date discussed to date for GSA to acquire new leased space of 70- to 100,000 sq. ft. is Fall 1978, this requirement cannot be met without immediate efforts by ODP, LSD, RECD, and GSA. This is a major facilities problem which requires D/L attention.

STATINTL b. Attachment B shows the 1D16 area expansion possibilities. The 5,000 sq. ft. (boomerang shaped) space is presently occupied   
The additional 1,000 sq. ft. (1D10) is concurrently planned for renovations in December 1977 to house the TADS system. If indeed all of the 6,000 sq. ft. is required by ODP, then an accelerated redesign is required to relocate TADS to another area. There is no technical requirement that TADS must be located in 1D10 as electronically it can be remote from its

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central processing unit (1D16). Work authorizations to GSA have already been issued for construction of the completed design package for 1D10.

c. The latest 1D16 renovations (circa 1976) were designed anticipating the ODP need for additional space. Consequently, the chilled water distribution, fire sprinkler system, fire detection/alarm system, and electrical power are sized and constructed for ease of expansion into the adjacent areas.

d. Without extraordinary attention this requirement also cannot be met until June 1979. (Anticipating new leased space by Fall-Winter 1978 and allowing 6 months for construction after the space is vacated.)

e. The facilities design could be accomplished through Agency resources, GSA or its term design contractor. It is a straight forward expansion of existing space. Only the usual problem of masonry demolition in a continuously run computer area hampers an otherwise routine construction

f. A budgetary estimate for 6,000 ~~sa~~ ft. of renovations (without the cost of relocating  or the TADS system) is \$350,000 including design and GSA fees and charges.

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7. In summary, the ADSTAR renovations (December 1978) and the Ruffing Center Expansion (July 1978) requirement as stated are impossible to meet based on the probable availability of new leased space outside of the Headquarters Building. If CAMS remains within the Headquarters Building, this requirement (November 1979) may be equally difficult to meet depending upon the complex move sequence within Headquarters before construction.

8. For emphasis, it is restated that the southside of the Headquarters Building has peaked out electrically. The combination of existing loads and all new additional machine electrical loads in GC03, 1D16, and GC47 (fed from B Vault) must be equal to or less than 1,300 kVA. This includes the aforementioned Ruffing Center Expansion and interim CAMS. Similarly, on the northside the electrical capacity of C Vault expanded is totally committed in support of Project SAFE projected 2,400 kVA load (in the northeast quadrant) and demands of the ADSTAR system. The "remaining available" power from D Vault is now totally

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committed to Project CAMS 300 kVA and Project SAFE (user area power requirements in northwest quadrant) 450 kVA loads. The total building loads, with the completion of these projects equals the total capacity of the electrical feeders from the Powerplant. Consequently, the long-term electrical needs of the Headquarters Building must be reassessed in terms of both capacity (electrical feeder) and distribution (electrical vaults - north and south) in light of the Comptroller action removing funding from the FY 79 budget.

9. At the earliest date, these requirements should be revalidated with ODP or OCR and revised implementation plans must be developed jointly with the respective office, LSD, and RECD reflecting realistic dates. A major priority effort should be directed to acquire the necessary additional space by OL. Additionally, GSA should be informed of the additional delay in Project SAFE. HEB is available to prepare background material and participate in discussion as necessary. Your attention to these projects is deemed urgent.

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Atts

cc: C/ADS/LSD/OL via C/LSD/OL



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